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[Abstract only, as requested]

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Abstract

The present design concerns an electric toothbrush in which the movement of the brush part is converted into a reciprocating movement in the vertical direction and a rotary movement in the roll direction depending upon the direction of rotation of the motor, wherein the kinetic force of the drive part that is driven by the rotary force of the motor is transferred via an insertion shaft, and the brush part subsequently cleans the teeth, wherein the electric toothbrush includes a flat plate gear that rotates by engaging said drive part with an insertion gear of a motor, an eccentric cam that interfaces with said flat plate gear in a rotating shaft identical to said flat plate gear and rotates, and a cam interface part that performs reciprocating movement in a perpendicular direction when said eccentric cam rotates in a first direction and performs reciprocating movement in a horizontal direction if the said eccentric cam rotates in a second direction. The electric toothbrush of this design effectively cleans teeth, removes plaque, and massages the gum area since the brush part can perform various movements, including brushing the surface of the teeth, brushing the gaps between the teeth, brushing the space between the teeth and gums, and massaging the gums.

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